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OUTLOOK

A WEEKLY NEWSPAPER FOR FACULTY AND STAFF AT THE UNIVERSITY OF MARYLAND AT COLLEGE PARK

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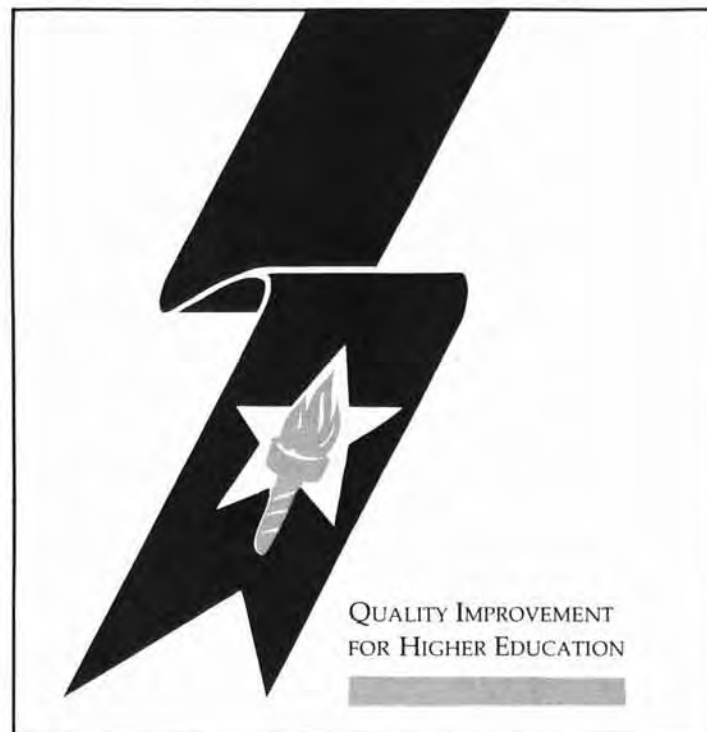
Top Executives to Discuss Quality Improvement at University Conference

Quality Improvement, often called Total Quality (TQ), is a concept that has been gaining widespread acceptance with corporations that place the highest priority on quality and customer service, while reducing costs. Recently, a handful of universities around the country have become interested in exploring the customer-oriented approach as a cost-effective way to improve quality in academic and service functions.

The University of Maryland at College Park will have a chance to examine quality improvement from many perspectives and discuss how it might benefit higher education at an all-day workshop to take place March 11 in the Adele H. Stamp Student Union. Several corporations have made corporate donations in support of this event. President William E. Kirwan has invited a top-level group of executives from both the private and public sectors to explore the subject with conference participants by sharing their knowledge about quality improvement based on the experiences of their organizations.

The luncheon speaker for the day of learning on "Quality Improvement for Higher Education" will be David Kearns, chairman of the Xerox Corporation. Other speakers include Gerald Ebker, vice president of IBM and President of the Federal Sector Division; Randall Evans, secretary, Maryland Department of Employment and Economic Development; Richard Marriott, vice chairman, Marriott Corporation; Aris Melissaratos, vice president and general manager, Westinghouse Electric Corp.; Wilbur Meier, director of engineering infrastructure development, National Science Foundation; William Potter, chief executive officer, Preston Corp.; Katharine Oliver, asst. state supt., Maryland Dept. of Education; Lorraine Flowers, coordinator for quality, Maryland Department of Education; Mortiza Rahimi, vice president, Wayne State University; and Tom Tuttle, director, Center for Quality and Productivity, University of Maryland.

The speakers will focus on the themes of quality improvement



strategies in organizations with known successes, the unique challenges facing higher education in implementing continuous improvement, and developing a curriculum that reflects quality principles.

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South African Fellowship Established to Encourage Future Black Leaders

The University of Maryland at College Park has established a new South African Fellowship program to provide graduate students with the education necessary to become effective Black leaders in South Africa in the future.

The university has set aside \$25,000 to recruit and offer financial support to Black South Africans who plan to complete graduate study at College Park and then return to South Africa, says Eugene Hammond, chair of the South African Fellowship Committee.

Although similar programs exist at a few private institutions, the university is hoping that its program will prove an attractive model for other public institutions in this country, says Hammond.

According to Hammond, the committee is particularly interested in supporting students in the sciences, engineering, economics, and educational policy.

The committee also hopes to keep the graduate students informed about political and cultural conditions in South Africa through special workshops and lectures. \$2,000 has already been set aside to bring South African speakers to campus this spring.

"We also hope, through these

workshops and lectures to help U.S. students here become more aware of the history, politics, and culture of South Africa," says Hammond.

A student in the College of Education is the first student to be offered and to accept the fellowship this spring. Three additional graduate students will be selected to begin graduate studies next fall.

The Institute for International Education and the Phelps Stokes Foundation, which helps South African refugees attend historically Black colleges in the U.S. have agreed with Valerie Woolston, director of the university's International Education Services, to screen and recommend South Africans who would like to begin graduate study at the university in the fall, says Hammond.

"We have also talked with Lindiwe Mabuza, chief representative of the African National Congress to the U.S., and Fanyana Mazibuko, head of a South African school of science and engineering, and both are eager to recommend candidates to us," he indicates.

The committee is currently accepting applications for the fellowship.

Lisa Gregory

Artificial Intelligence Pioneer Marvin Minsky to Speak

Marvin Minsky, one of the pioneers and founders of the field of Artificial Intelligence and author of the provocative book *The Society of Mind*, will deliver a talk on the "Future of Artificial Intelligence" March 12 at 10:30 a.m. in the auditorium of the Center of Adult Education. Minsky's talk is part of the Distinguished Lecture Series sponsored by the Institute for Advanced Computer Studies, the Campus Committee on Cognitive Studies and the Office of Graduate Studies and Research. A recent winner of the prestigious Japan Prize, a Turing Award winner and member of both the U.S. National Academies of Science and Engineering, Minsky is currently the Toshiba Professor of Media Arts and Sciences at the Massachusetts Institute of Technology.

University Launches Program for Academically Talented Youth

The university's Institute for Child Study in the College of Education is currently participating in the Academic Champions of Excellence (ACE), a statewide academic enrichment and development program started specifically for middle and high school students in Prince George's County.

"The program is aimed at enriching academic performance and achievement and increasing college preparedness," says Rosalyn King, faculty research associate in the Department of Human Development.

The program, which is currently operating in three middle schools and one high school in Prince George's County, began in Baltimore City last year.

According to King, the first-year operations proved effective in Baltimore City and resulted in the awarding of funds from the Carnegie Corporation of New York to expand the program to Prince George's County for the next three years.

In addition, as a result of the program's recognition in Prince George's County, the state of Maryland's Commission on Higher Education has awarded additional funds to the ACE program for further expansion into four more schools, including Northwestern High School and Nicholas Orem Middle School in Hyattsville, Greenbelt Middle School in Greenbelt, and Charles Carroll Middle School in New Carrollton.

ACE concentrates on strengthening skills in math, science, communications, career awareness, and critical thinking and learning.

"The program is aimed at the student with a GPA of 'C' or better," says King, who adds that some students in the program are

considered by their school teachers to be gifted and talented.

The university's involvement in ACE consists of a Saturday Academy and a Summer Scholars Institute.

The Saturday Academy brings program participants to the campus for six Saturdays each semester.

Academy sessions consist of classes in math, science, instrumental enrichment, communications and career awareness. Each class is taught by a university faculty instructor paired with a public school teacher. Other university faculty members participate as guest lecturers.

The dates for the ACE Saturday Academy for the spring semester are March 2, 16, 23; April 13, and 27; and May 11.

The ACE Saturday Academy began in the fall semester on November 3 with Richard Berg and associates from the physics department serving as the university faculty in science and math.

"Our first academy session was a great success, with 68 students and 22 parents in attendance," says King. "What's really exciting is that many parents are attending classes along with their children."

The Summer Scholars Institute will provide intensive academic enrichment and training for program participants over five weeks,



meeting every day of the week for at least four hours, says King.

The summer institute will also be taught by university faculty and selected public school teachers.

"We intend for the activities conducted in the university component to be exciting, stimulating, serious but fun, and academically challenging for the student participant," says King.

King says that the program is currently searching for more members of the university faculty, staff and students to become involved as faculty instructors and lecturers, role model speakers, student mentors and tutors and volunteers. Those interested can call King at 405-7354.

Lisa Gregory

Marie Davidson, executive assistant to the president talks with a parent at the orientation for the Saturday Academy program. Davidson along with College of Education Dean Dale Scannell welcomed students and their parents to the Academic Champions of Excellence event last fall on the College Park campus.

Search Committee Seeks New Academic Affairs Assistant VP

A search committed headed by Earlene Armstrong, Entomology, is reviewing applications for the position of assistant vice president for Academic Affairs. The position involves major responsibilities for affirmative action in the Academic Affairs division as well as liaison work with selected student and academic service units, including the Office of Minority Student Education (OMSE).

Members of the committee in addition to Armstrong include:

Robert Coogan (Eng.), Mary Cothran (OMSE), Sharon Fries-Britt (Student Affairs), Diane Gaboury (Undergrad. Studies), Raymond Johnson (Math.), Timothy Ng (Hort.), William Powers (Public Affairs) and Olivia Saracho (Curric. and Inst.).

For further information, call Earlene Armstrong at 405-3925. For best consideration, applications for the position should be in the hands of the committee by March 15.

OUTLOOK

Outlook is the weekly faculty-staff newspaper serving the College Park campus community.

Kathryn Costello Vice President for Institutional Advancement
Roz Hiebert Director of Public Information & Editor
Linda Freeman Production Editor
Brian Busek Staff Writer
Lisa Gregory Staff Writer
Tom Otwell Staff Writer
Fariss Samarra Staff Writer
Gary Stephenson Staff Writer
Jennifer Bacon Calendar Editor

Judith Bair Art Director
John Consoli Format Designer
Stephen Darrou Layout & Illustration
Chris Paul Layout & Illustration
Al Danegger Photography
Linda Martin Production
Peter Zulkarnain Production Intern

Letters to the editor, story suggestions, campus information & calendar items are welcome. Please submit all material at least three weeks before the Monday of publication. Send it to Roz Hiebert, Editor Outlook, 2101 Turner Building, through campus mail or to University of Maryland, College Park, MD 20742. Our telephone number is (301) 405-4621. Electronic mail address is outlook@pres.umd.edu. Fax number is (301) 314-9344.

UNIVERSITY OF MARYLAND AT COLLEGE PARK

All-Day Workshop on March 11 to Explore Quality Improvement

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"Total quality is a means of focusing organizations on the requirements of their internal and external constituents and then consistently elevating the quality of services and products to meet those requirements. To date, this philosophy has been adopted primarily by organizations in the private sector, many of them driven to experiment with this approach because they were experiencing serious financial difficulties. Some highly visible and now successful companies are avid proponents of this approach and its

results," says Kirwan. "I believe that we in the higher education community can benefit from exploring the application of quality improvement concepts to our service and academic areas, especially when we are forced to move ahead with fewer resources."

Those interested in attending the conference should call the president's office, (301) 405-5803 by March 6. This event is supported entirely through private donations and a \$20 registration fee.

Students Invited to Learn About Grad School

Sophomores, juniors and seniors who are high academic achievers are invited to learn about graduate school on Tuesday, March 12 at 3:30 p.m. in Room 2203, Art/Soc. The event, "Opportunities for Graduate and Professional Education," is sponsored by the offices of Undergraduate and Graduate Studies to provide information about the benefits of graduate and professional education, national financial awards, and the graduate school application process. Small group discussions and a reception with light refreshments will follow the presentation. For more information, call Bonnie Oh at 405-9355.

NEWS

College Park "In the News"

College Park's faculty and academic programs frequently receive attention in the news media.

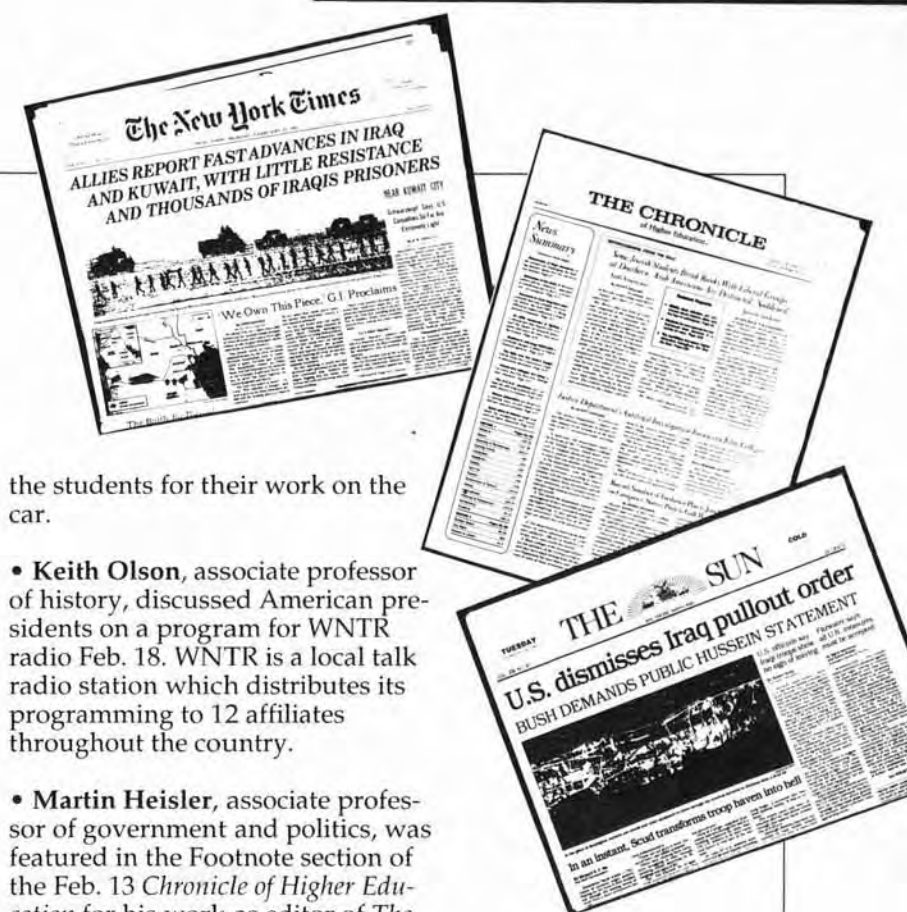
College Park-related stories appear regularly in both the regional and national media, and our faculty members often are quoted as experts in breaking news situations. Here are recent highlights in news coverage of some of College Park's faculty.

- The release during February of the third volume of the Freedmen and Southern Society Project's *Freedom: A Documentary History of Emancipation 1861-1867* received national attention. Written and compiled by a team of historians headed by **Ira Berlin**, professor of history, the book received a highly favorable review in the Feb. 3 *New York Times* and was subject of a front-page article in the Feb. 10 *Baltimore Sun*. The *Times* review of the book said: "Future historians may well regard the work of the Freedmen and Southern Society Project at the University of Maryland as this generation's most significant encounter with the American past."

- An opinion piece by **President William E. Kirwan** appeared in the Feb. 16 *Washington Post*. In his article on "Freedom of Expression and Political Correctness," Kirwan discussed the university's traditional commitment to freedom of expression.

- **Joseph Silverman**, professor of material and nuclear engineering, has received an extraordinary amount of attention for his development of a new rubber compound. Since the beginning of the spring semester, stories on Silverman and his innovation have appeared in *Business Week*, *The New York Times*, *Science News*, *The Chicago Tribune*, *The Baltimore Sun*, and many others.

- "The Pride of Maryland," the award-winning solar car constructed by College Park engineering students continues to receive positive attention. The car was featured on the nationally syndicated television program "Motor Week" Feb. 16. A February mailing to Washington, D.C., and Maryland customers by Pepco congratulated



the students for their work on the car.

- **Keith Olson**, associate professor of history, discussed American presidents on a program for WNTR radio Feb. 18. WNTR is a local talk radio station which distributes its programming to 12 affiliates throughout the country.

- **Martin Heisler**, associate professor of government and politics, was featured in the Footnote section of the Feb. 13 *Chronicle of Higher Education* for his work as editor of *The Annals of the American Academy of Political and Social Science*. Previously, he was featured in a front page article in the *Chronicle of Higher Education* and in *The New York Times* for his work on immigration policy.

The College Park "In the News" column will run periodically in *Outlook* throughout the spring semester.

The Campaign for College Park 1990-91

Increased Support from Faculty and Staff

"This is a powerful testament to the generosity of the members of our campus community and a sign of their strong commitment to the University of Maryland," said Robert Griffith in a December letter to all College Park employees. The Arts and Humanities dean was describing the continued growth and success of the annual faculty and staff Campaign for College Park.

In a year with staggering budget cuts, threats of extended work weeks, and uneasiness over the future of many enhancement initiatives on campus, the 1990-91 Campaign for College Park has brought in over \$180,000 and the support of more than 12 percent of the full-time employees. In fact, seven Student Affairs departments—Orientation, Judicial Programs, the Office of the Vice President for Student Affairs, Campus Activities, the Coun-

selling Center, Campus Recreation Services, and the Graduate Apartments—each garnered over 50 percent employee support. Marietta Bryant of Graduate Apartments and John Bryant of Fire Protection Engineering can both boast 100 percent participation and enthusiasm among their colleagues.

Where was all of this support directed? According to the Campus Development Office, the Student Affairs Scholarship Fund was the most supported fund in the Campaign, with nearly 12 percent of all employee gifts directed toward it. Unrestricted gifts followed close behind at nine percent of total giving, and the John B. Slaughter Endowment in Science, Technology, and the Black Community gathered the support of seven percent of employee donors.

It is significant to note in these

times of shrinking budgets that 70 percent of faculty and staff who gave gifts to their own departments, units, or colleges compared to only 55 percent making gifts in their own work areas last year.

Listed on page 7 are the donors to the 1990-91 Campaign for College Park. Donors who have requested anonymity are not listed, and any gifts received after January 21 could not be included. As with any long listing of individual names, there is the possibility that some names have been omitted. If we have excluded you inadvertently, please call the Campus Development Office at 405-4631. We will print additions and corrections later this year.

Jennifer Volkmann Hubbell

See page 7 for a listing of 1990-91 donors.

Seminar Series to Feature Foreign Policy Fellows

The School of Public Affairs will offer a series of seven seminars this spring featuring the Foreign Policy Fellows who are spending six months at College Park studying the American foreign policy process.

The fellows are all mid-level professionals from 17 countries who have been selected from more than 200 nominees for their experience and exceptional analytical skills on foreign policy issues.

The seminars, which are free and open to the entire campus community, will be held on Wednesday afternoons in the Student Lounge of Morrill Hall beginning

at 3:30 p.m. Refreshments will be served.

Among the seminar speakers are Nora Palou Rodriguez, a senior researcher at the Center for the Study of the United States in Havana, Cuba, and Ngo Duc Thang, an official of the Ministry of Foreign Affairs, Vietnam.

The first seminar, focusing on perspectives on Asian economic reform and development, will be held March 6.

Speakers include: Aw Siew-Juan, Trade Policy Officer, Singapore Trade Development Board, "The Economy of Singapore: A Perspec-

tive," Wang Yington, Vice-Director, Foreign Affairs Division, Shanghai Academy of Social Sciences, "Chinese Economic Reform: A Shanghai Perspective," Parichart Luepaiboolphan, Thailand Foreign Ministry, "ASEAN: Problems and Prospects," and Ngo Duc Thang, Vietnam Ministry of Foreign Affairs, "Economic Reforms in Vietnam in Light of Changes in Eastern Europe."

I.M. (Mac) Destler, director of the Advanced Seminar on the Foreign Policy Process and professor of public affairs, will chair the session.

Geography Hosts Regional Meeting

The Department of Geography will host the 1991 conference of the Mid-Atlantic Division of the Association of American Geographers, Saturday, March 9 from 9 a.m.-5:30 p.m. in room 1113 of Lefrak Hall. Following opening remarks by Keith Harries, MAD chair, and John Townsend, chair of the department, demonstrations on current research will include "Environmental Planning Problems for the Chesapeake Region" and "The Evolution of Suburban Washington." In addition to Saturday's program, a panel of guest speakers will discuss the impact of Geographic Information Systems in the field of geography, Friday, March 8, 2:30-5 p.m. in the Maryland Ballroom, South Campus Dining Hall. Interested persons should contact the Geography department at 405-4066.

These Campus Green Thumbs Are No Pink Collar Workers

The grounds maintenance crews at College Park keep the campus in top shape year round. Workers can be seen daily picking up litter, removing leaves, plowing snow, pruning trees, cutting grass, weeding and fertilizing flower beds, and doing anything else necessary to keep the campus beautiful.



Physical Plant grounds crew staff Penny Abbey and Leah Hurd at work

It's a hard job and it takes a strong man to do it, or as four special workers will tell you, a strong woman.

Leah Hurd, Patti Stoner, Penny Abbey and Andriana Stuart are the only women on the grounds maintenance crew at College Park. And when it comes to weed whacking, driving a truck or operating heavy equipment, they are second to none.

Hurd is the assistant in charge of the crew on which Stoner and Abbey work, and Stuart heads a crew assigned to another campus zone.

Hurd, whose crew is responsible for maintaining the area around the Armory, the Rossborough Inn and Leonardtown, feels that the men on the crew are all very accepting of the women. "It's like having a whole bunch of brothers. As long as you

can take their teasing, they're great," she says.

Abbey agrees and says that while she realizes her job is not considered a "pink collar" profession, her gender doesn't stop the male crew members from bonding with the women. "We all work as a team," she says. Stoner says the only harassment she gets is from people not on the crews who don't understand her career choice.

All three women on the Rossborough-area crew say they love the outdoors and that was a big part of their decision to enter the field. Hurd is a graduate of the Institute of Applied Agriculture at the university where she earned a two-year degree in landscape management in 1982 and another certificate in turf, grass and golf course management in 1984. She worked several different greenhouse and golf course jobs before returning to College Park almost three years ago.

Abbey holds a B.A. degree in social sciences from the University of Florida with a concentration in women's studies, but her love of physical outdoor work brought her to Maryland almost two years ago where she is also taking classes in plant propagation.

"I worked in greenhouses a lot when I was younger and that started my interest," says Abbey, who thinks she will study landscape management next.

The newest woman on the crew is Stoner who has been here for just over eight months. A graduate of Laurel High School's vocational-

tech program in greenhouse management, she says she really likes the job because it is a challenge. "When I was little, I used to follow my dad and brother outside, but they would never let me help with the yard work because they thought it was too dangerous," she says. "Now I get to use the riding mower."

Stoner says the only thing that's a little hard about the job is when she sees university students on the campus that she went to high school with. "It's kind of weird when guys I used to date recognize me or when girls I knew walk by and their hair is perfect and they're dressed all nice and there I am all sweaty and cutting the grass or something," she says.

Still, she thinks she will remain in the field forever because she loves the solitude and the time she spends outside.

Not surprisingly, the one job that all three women claimed is their favorite is planting and caring for flowers. "The flowers are just so beautiful," says Stoner. "You can really get caught up in things like that." Hurd is especially proud of the beds by the Rossborough Inn gateway, which she planned and planted with her boss last year. "We get a lot of compliments on that, and it makes us really proud."

There is no question that College Park is a beautiful campus, and now when we stop to smell the flowers, we'll know whom to thank.

Kim Neumann

Traditional and Non-traditional Job Distinctions Blur at College Park

The maintenance and beautification of the campus grounds are not the only non-traditional jobs held by women at College Park.

Twelve of the 73 officers of the campus police department are women. Major Kathy Atwell heads the Services Bureau and Lieutenant Melinda Bell is in charge of the Squad One shift.

Other uniformed officers who share police duties with their male colleagues include: Detective Marylou Barkman, Corporal Sue McIntire, Privates First Class Mary Millionig, Barbara Jenkins, Mary Brock, Laura Frey, and Kathy Birem, and Privates Rebecca Potter, Stevette Bryant, and Sabrina Rivers.

Twenty of the approximately 100 drivers who pilot the fleet of 38 Shuttle UM buses are women, reports General Manager Bari Stan-dish.

Gloria Bizjak, an instructor at the university-based Maryland Fire and Rescue Institute, administers MFRI's First Responder Project. The first responder program teaches employees of Maryland businesses and industries basic medical skills

needed to provide initial care for patients suffering injury or sudden illness. A trained Emergency Medical Technician, Bizjak has had extensive work in the health care field and serves as a member of the Tuxedo-Cheverly Volunteer Fire Department.

Laura Wildesen is an assistant manager for engineering and plant maintenance in the Physical Plant's engineering department.

Wally Glasscock, Physical Plant's assistant director for Human Resources management, notes that the apprenticeship program has graduated two women, Dawn Buchanan, a temperature control mechanic, and Jackie Anderson, an electronics mechanic. Currently, two other women are apprentices in air conditioning, and another in temperature control.

Jobs that once might have been considered solely "man's work" or which did not even exist a decade or more ago are filled by women in the Department of Environmental Safety.

Luisa Ferreira is a fire protection specialist responsible for conducting

fire inspections and investigations as well as public fire protection education. Sujita Pierpoint, a health physicist, is responsible for the campus radiation program and conducts radiation surveys and evaluations on campus. Donna McMahon, an industrial hygienist, conducts surveys and evaluates chemical and biological hazards.

Regina Ricciuti and Deborah Thompson have been hired this semester as physical science technicians in the hazardous waste management program. They are responsible for the collection, consolidation and preparation for final disposal of hazardous materials and for assisting in clean up of waste spills.

Department acting director Bob Ryan notes that Ferreira, Pierpoint, and Ricciuti worked in the department when they were students at College Park and that this semester three women students work there, two with the fire protection group and one in industrial hygiene.

Tom Otwell

Causal Modeling Subject of First Spring SRC Colloquia

Judea Pearl, director of the Cognitive Systems Laboratory and professor of computer science at the University of California, Los Angeles, will discuss "Causal Modeling," at the March 11 Systems Colloquia Series sponsored by the Systems Research Center. Pearl, an authority on knowledge representation, probabilistic reasoning and constraint processing, will speak at 3 p.m. in Room 1100 of the Instructional Television building. A reception in Room 1152 of the A.V. Williams building will follow Pearl's lecture. For information, call Sharon Dass at 405-6634.

ARTS

Blum To Lead Summer Workshop for Aspiring Television Writers

College Park is 3,000 miles from Hollywood, but Rick Blum is working to shorten the distance, at least figuratively, for aspiring television and film writers.

Blum, associate professor of radio, television and film (RTVF), will conduct a workshop on comedy writing for television during the first academic session this summer. The workshop, which is open to both RTVF students and area writers, will be geared toward instructing writers in the techniques of writing professionally for television and introducing them to Hollywood contacts.

As part of the workshop, representatives from Warner Brothers will meet with the students and read some of their scripts.

"We're trying to create an opportunity for students to learn what's expected in the field. We want to see scripts read, not sitting in a drawer like a term paper," says Blum, who has written and co-authored guide books for students on television writing, acting and production.

The workshop will be the first in the department's new Institute of Television and Film Writing Program. Blum expects future workshops to focus on dramatic writing for television and feature-film writing.

Some of Blum's students have already caught the attention of professionals in the film industry.

Malcolm Johnson, an undergraduate student of RTVF, scored highly in two national film writing contests last fall. His script, "American



Rick Blum

Wings," which deals with the role of African American airmen in World War II, was one of 182 scripts selected from 2,888 entries as quarter-finalists in a competition sponsored by The American Academy of Film Arts and Sciences. "American Wings" also was a finalist in a competition sponsored by the Black Filmmakers Hall of Fame.

There are 24 openings for the summer workshop. Interested persons must submit applications and writing samples to Blum by May 1. For information call 405-6263.

Brian Busek

Arts F.Y.I.

David Fogle, associate professor of architecture, has been appointed director of the Graduate Certificate Program in Historic Preservation. The graduate program, which has brought the library of the National Trust for Historic Preservation to the College Park campus, is a collaboration of the disciplines of American studies, anthropology, architecture, geography, history, horticulture, and urban studies and planning.

Margaret Bridwell, director of the health center, and Bill Patterson, assistant professor of theatre, will speak on "AIDS: New Realities for Campus Life" at the American Association for Higher Education national conference March 26 in Washington D.C. Patterson was co-chair of the university's first "AIDS Awareness Week" in November.

E.B. Smith, professor emeritus of history, has been awarded a Fulbright grant to lecture at Leningrad University in the U.S.S.R., the Board of Foreign Scholarships and the United States Information Agency announced recently. He is one of about 1,500 scholars who will travel abroad for the 1990-91 academic year under the Fulbright Program.

Susan Leonardi, associate professor of English, recently received a John H. McGinnis award for fiction and short fiction from the *Southern Review*. Leonardi received the \$1,000 prize for an essay, "The Party's Over," which appeared in the publication. Leonardi is currently at work on a short story collection, "Nun's Stories," that she expects to complete next year with the help of a university Creative and Performing Arts Award.

Archives II to Include Theater and Major Film Collection

The National Archives II building, now under construction at College Park, is expected to make a wealth of intellectual resources readily accessible to university scholars. And at least one of Archives II's important resources will be the brainchild of a College Park graduate.

A 300-seat film theater/conference center is being planned as part of the \$250 million building which will house a substantial portion of the national's archival records. Bill Blakefield, public programs director for the National Archives and a 1971 College Park graduate in radio, television and film, is planning the theater project.

While specific plans for the theater remain to be settled, likely uses of the facility include regular screenings of non-fiction films and jointly sponsored programs and events by the Archives and the university, Blakefield says.

The Archives owns the largest collection of non-fiction film in the United States. Its holdings include more than 150,000 reels of film,

160,000 sound recordings and 20,000 videotapes with some newsreel films and other footage dating almost to the turn of the century, Blakefield says.

The Archives' entire film and sound recording collection will be housed at Archives II, he says.

Use of the theater is a topic of discussion by the Archival Research Coordinating Committee, a group of Archives representatives and university officials that is exploring potential joint programs between the two institutions at Archives II.

The building is scheduled to open in 1993.

UMIACS Workshop to be Held

The University of Maryland Institute for Advanced Computer Studies, in cooperation with ACM SIGCOMM and the Computer Science Department at UMBC, will hold the "2nd Annual Workshop on Very High Speed Networks" March 4-5 at the Greenbelt Marriott in Greenbelt, Maryland. The goal is to bring together experts in related areas to discuss progress and research in the design and implementation of high speed (gigabit rates) communication networks. DARPA's Ira Richer will deliver the keynote address and Bob Kahn, Corporation for National Research Initiatives, will be a major presenter. For details, call Dawn Vance at 405-6730.

Researcher Probes Secrets Of Paralysis

As many as 225,000 Americans are paralyzed due to spinal cord injuries. Currently, there is little that can be done to repair these types of injuries. But research by Avis Cohen, associate professor of zoology and associate professor at the Institute for Physical Science and Technology, is laying the groundwork that may some day lead to new approaches to helping victims of spinal cord damage regain the use of their paralyzed muscles.

Using the lamprey, a fish that is one of the most primitive vertebrates (animals having spinal cords), Cohen became the first person to demonstrate functional spinal cord regeneration in a vertebrate. More recently, Cohen has shown that nerve fiber regeneration in this fish can result in dysfunctional, as well as functional, nerve fiber regrowth. This knowledge is helping provide important clues regarding the intricacies of central nervous system damage and repair.

In her earlier work, Cohen showed that even after the spinal cord was severed in lampreys, the cut nerve fibers regenerated and reconnected themselves, enabling the fish to regain at least some of its swimming ability.

These findings fueled hope that scientists eventually might be able to similarly stimulate nerve fiber regeneration in humans. But Cohen's new results suggest that spinal cord regeneration may be much more complex than originally thought. Accordingly, Cohen cautions that many hurdles remain before the results of her research can be applied to humans. "Our work suggests some of the complexities that will have to be addressed in future research," she says. "Because even if regeneration can be made to occur in humans, it does not guarantee that the regrowth will be functional."

One of the major issues yet to be resolved concerns nerve fiber alignment. Even if damaged human nerve fibers in the spinal cord could be made to regrow and reattach themselves across the injury site, the question remains whether each severed nerve fiber must align itself perfectly with the exact corresponding target on the other side of the wound in order for full motor function to be restored. An analogy might be what would happen if a large telephone cable were cut in half and then haphazardly respliced. Although phone service would be restored, every telephone call placed would result in a wrong number.

But lampreys appear to have the ability—through some sort of compensating mechanism—to regain some degree of motor function even when regenerated nerve fibers are not perfectly aligned or functioning normally. This ability is evidenced in lampreys being able to swim after their severed spinal cords heal—even though the regenerated nerve fibers transmit electrical

impulses that are different than those transmitted before surgery. According to Cohen, the apparent capability of the lamprey to compensate for imperfectly reconnected nerve fibers may be the key to determining the best approach for helping humans with spinal cord injuries. If damaged spinal cords in humans can be made to grow back together, even if the individual nerve fibers do not reattach themselves perfectly to the proper pre-injury nerve fiber site, some degree of function might still be restored. Once damaged nerve fibers are re-

connected, even if imperfectly, physical therapy or other medical therapies might permit some people to regain at least some of their muscular function.

It is this hope that spurs Cohen on to seek answers to a complex human health problem in a simple fish. "We can study these complexities because unlike humans, the lamprey can regenerate spinal nerve fibers easily," she said. "And once we are able to stimulate regeneration in humans, we will know what to watch for."

Gary Stephenson

Horticulture Professor Helps State Flower Industry Bloom

Maryland's troubled economy could get a boost from an unlikely source—flowers. During the past five years the cut flower trade in Maryland has grown from a \$1 million per year backyard business for a handful of farmers to a \$7 million industry for more than 150 farmers across the state. And it could get a lot bigger. This is largely due to the work of William Healy, assistant professor of horticulture.

"We have a chance to re-define the word agriculture in this state and for the rest of the nation," Healy says. "There is tremendous room for growth in the cut flower industry. Maryland produces only 20 percent of the flowers its citizens purchase. We can grow extremely fresh, high quality flowers for a huge waiting market, not only in this state, but in the highly populated corridor running from Richmond to Boston."

According to Healy, Maryland is the only state classified by the Census Bureau as an "urban state" because of its population density and high property costs. He says conventional vegetable farming here is becoming increasingly cost-prohibitive because of high land value and farm labor shortages.

"When land costs \$20,000 or more per acre, most people can't justify growing corn or other crops that yield only two or three thousand dollars," Healy says. "This is where high value crops like cut flowers can re-define agriculture and land use in population-dense areas."

Healy has encouraged and helped many of the state's farmers to enter the cut flower industry. "We are developing the industry by talking up the idea of growing flowers to the state's farmers and anyone else who is interested," Healy says. "We get them excited about the idea, and then our extension agents help them enter the field with advice on insect control, irrigation, financial management and what flowers to grow."

Healy has developed an extensive data base of information about the various flowers and other ornamental crops that grow well in this

state. His research in the management of such crops is among the most extensive in the world. He makes this information available to interested farmers.

Healy says most people enter the business with a small initial investment that produces enough capital within a year or two to develop the undertaking into a full-time business.

"One vegetable farmer on the Eastern Shore who had difficulty finding labor to pick his vegetables began growing cut flowers and potted plants a few years ago as a sideline," Healy says. "Last year he plowed under his tomatoes and now has a one-acre greenhouse where the vegetables once grew."

In January Healy and the Department of Horticulture hosted and presented papers to a large meeting of cut flower researchers, farmers and extension agents from around the Eastern Seaboard.

"We've got the ball to the top of the hill," he says of the new flower industry in Maryland, "now it's really going to roll."

Fariss Samarrai



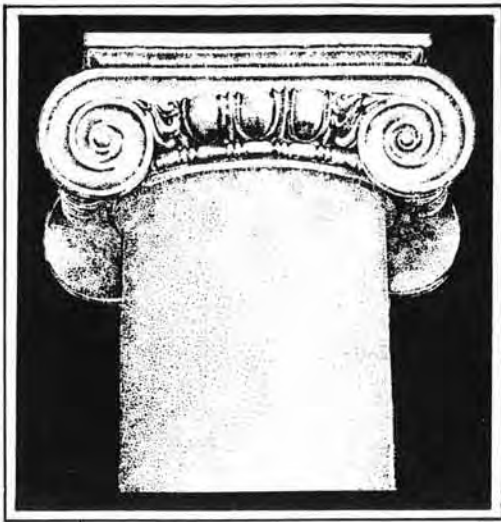
Avis Cohen



William Healy



Cut asters.



'Over 50 Percent Club' Winners Honored

Six Campaign for College Park departmental coordinators in the division of Student Affairs encouraged more than 50 percent of their colleagues to contribute to the 1990-91 campaign. Honored recently for their efforts were (from left) Greg Sharer (Orientation), John Zacker (Judicial Programs and Student Affairs office), Pat Moreland (Counseling Center), Julie Leimkuhler (Campus Recreation Services), Michael Cuyjet standing in for Cissy Abel (Campus Activities) and Marietta Bryant (Graduate Apartments).



Campaign for College Park Honor Roll 1990-91

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CALENDAR



Improvisations Unlimited presents its spring program March 5-9 at 8 p.m. at the Studio/Theatre of the Dance Building. Tickets are \$8 standard admission, \$6 students and seniors. For info and reservations call 405-3190.

MARCH 4-14

4 MONDAY

Art Exhibition, three concurrent exhibitions featuring *New Deal Images*, *Contemporary Prints from the Private Collection*, and *The Andy Warhol Athlete Series*, today-March 15, The Art Gallery. Call 5-2763 for info.

Library Display: "Women in Development," through March, Hornbake Library Lobby. Call 405-9117 for info.

Parents' Association Gallery Exhibition: "A Woman's Collection: Textiles in the Lives of 19th-Century Women," Mar. 1-Apr. 17, Parents' Association Art Gallery. Call 4-ARTS for info.

Women's Center Film and discussion: "A State of Danger," Palestinian women and the Israeli military, noon-1 p.m. (bring lunch), 0109 Hornbake Library. Call 4-8462 for info.

Spanish and Portuguese Informal Seminar: Sylvia Winter, Stanford U., 12 noon, 2215 Jimenez. Call 5-6441 for info.

Psychology Distinguished Speakers Lecture: "An Investment Theory of Creativity," Robert Sternberg, Yale U., 4 p.m., 1250 Zoo/Psych. Call 5-5867 for info.

Computer Science, Philosophy/Cognitive Science, and Institute for Advanced Computer Studies Joint Colloquium: "The Symbol Grounding Problem and Categorical Perception," Stevan Harnad, Psychology, Princeton U., 4:30 p.m., Classroom Bldg., refreshments 4 p.m., 1152 A.V. Williams Bldg. Dr. Harnad will be on campus March 5 to meet with interested individuals. Call 405-5710 for info.

Wanderlust: "Nationalist China: Taiwan," Ed Lark, 8 p.m., Hoff Theatre. Call 4-HOFF for info.

5 TUESDAY

Personnel Services Pre-Retirement Seminar, today and tomorrow, 9 a.m.-4 p.m., Prince George's Room, Stamp Student Union. Call 5-5648 for info.

Writers Here and Now Reading, Henri Cole, poet, 3:30 p.m., Maryland Room, Marie Mount. Call 5-3820 for info.

Spanish and Portuguese Guest Lecture: "The Castel at Mina Which I Have Seen: Africa, Columbus Realm Beyond Reason," Sylvia Winter, Stanford U., 4:30 p.m., multipurpose room, St. Mary's Hall. Call 5-6441 for info.

Spring Dance Performance, Improvisations Unlimited, featuring new work by Ping Chong, today-

March 9, 8 p.m., Studio/Theater. Call 5-3190.*

6 WEDNESDAY

Black Women's Council Panel Discussion: "Celebrating Our History: Calling on Our Ancestors and Affirming the Present while Taking Responsibility of Our Future," noon-1 p.m., Nyumburu Cultural Center. Call 5-5620 for info.

Art Department Lecture, Pamela Blotner, sculptor, 12:30 p.m., 1309 Art/Soc (West Gallery). Call 5-1445 for info.

Center for Teaching Excellence CORE Faculty Workshop: "Making the Most of Large Classes," 3-5 p.m., Maryland Room, Marie Mount. Call 5-3154 for info.

Graduate School Distinguished Lecturer: "Darwinizing with a Vengeance," Richard Dawkins, Zoology, Oxford U., 3:30 p.m., 2203 Art/Soc, wine and cheese reception following. Call 5-4258 for info.

Foreign Policy Fellows Seminar: "Perspectives on Asian Economic Reform and Development," 3:30 p.m., student lounge, Morrill Hall, refreshments served. Call 5-6330 for info.

Celebration for Mary Helen Washington, book signing and reading from *Memory of Kin*, presented by Germanic and Slavic Language and Literature, and the Women's Studies Program, 4-6 p.m., multipurpose room, St. Mary's Hall. Call 5-6878 for info.

Architecture Lecture, David Childs, Skidmore, Owings, and Merrill, NY, 8 p.m., Architecture Auditorium. Call 5-6284 for info.

Twentieth Century Ensemble Concert, 8 p.m., Tawes Recital Hall. Call 5-5548 for info.

7 THURSDAY

Committee on Women of Color Lecture: "Listening to Women's Voices: Celebrating Our Diversity," noon-2 p.m., Atrium, Art/Soc. Call 5-5615 for info.

Black Faculty and Staff Association Seminar: "Stress Management: Realities of the Present, Strategies for the Future," Javaune Adams-Gaston, psychologist, noon-2 p.m., Maryland Room, Marie Mount. Call 4-7225 for info.

Danish Lecture: "Denmark and Europe," Peter Dyvig, Ambassador, Royal Danish Embassy, 12:30-1:45 p.m., 2122 Jimenez. Call 5-4097 for info.

University Community Concerts, Philharmonia Baroque Orchestra, Nicholas McGegan, con-

Red Cross Blood Drive Postponed

The Red Cross annual blood drive, scheduled for Tuesday, March 5, has been indefinitely postponed. According to Dr. Paul Ness, executive head of Red Cross Blood Services, because of Operation Desert Storm, an overwhelming number of donors have given blood, with the result that the region's current blood inventory is abundant and more than adequate to meet local needs and to provide blood products to the Department of Defense when requested. To reserve the donor pool in order to meet future blood demands, many blood drives—including the university's—have had to be postponed. The Red Cross apologizes for any inconvenience to the College Park community.

ductor, program TBA, 8 p.m., pre-concert seminar, 6:30 p.m., Adult Education Center, \$17.50 standard admission, \$15.00 students and seniors. Call 80-4239 for info.*

University Theatre: "Major Barbara," today-March 10 and 14-16, 8 p.m., Sunday matinee, 2 p.m., Tawes Theatre. Call 5-2201 for info.*

8 FRIDAY

Counseling and Personnel Services Conference: "The AIDS Crisis: An Interdisciplinary Response to the Psychological Issues," 9:15 a.m.-4:30 p.m., 2111 Stamp Student Union, pre-registration required. Call 5-2864 for info.

Geology Seminar: "Geology and Geochemistry of Modern Seafloor Marine Sulfides," W.C. Shanks, U.S. Geological Survey, Reston, VA, 11 a.m., 0105 Hornbake Library. Call 5-2783 for info.

AAUW Published Women Luncheon, Carol Robertson, Ethnomusicology, noon-1 p.m., Carriage House, Rossborough Inn, reservations required. Call 4-8015 for info.*

Mental Health Lunch 'n Learn: "Clinical Hypnotherapy: The State of the Art," Akio Otani, Counseling Center, 1-2 p.m., 3100E Health Center. Call 4-8106 for info.

Computer Science Center and President's Commission on Disability Issues Joint Lecture: "Changing the Disabled Experience," Alan Brightman, Worldwide Disability Solutions Group, 1:30-3 p.m., non-print media room T, Hornbake Library. Call 5-2950 for info.

University Honors Program Lecture: "International Influence of the Media on the War: Voice of America and CNN," Holly Shulman, History, 2 p.m., Honors Lounge, 0110 Hornbake Library. Call 4-0643 for info.

Annual Conference of Mid-Atlantic Division of Association of American Geographers, panel discussion, today 2:30-5 p.m., Maryland Ballroom, South Campus Dining Hall; main address and program, tomorrow 9 a.m.-5:30 p.m., 1113 Lefrak, pre-registration preferred. Call 5-4066 for info.

Music Lecture: "A Non-Transposing Motive in Webern's Op. 3 George Lied," Robert Watson, 3 p.m., 2102 Tawes. Call 5-5548 for info.

Women's Studies Program Annual Research Forum: "Currents of Change: Feminist Research, 1991," coffee served 3:30 p.m., programs 4-6 p.m. and 7-9 p.m., 2110 Adult Education Center. Call 5-6877 for info.

Graduate Student and Faculty Gathering: "Islamic Christian Dialogue," dinner and discussion, 5:30 p.m., St. Andrews Parish (College Park). Call 5-8453 for info.

University Theatre: "Major Barbara," 8 p.m., Tawes Theatre. See Mar. 7 for details.*

9 SATURDAY

University Theatre: "Major Barbara," 8 p.m., Tawes Theatre. See Mar. 7 for details.*

10 SUNDAY

University Theatre: "Major Barbara," 2 p.m., Tawes Theatre. See Mar. 7 for details.*

11 MONDAY

Quality Improvement Conference: "Quality Improvement for Higher Education," including luncheon address by David Kearns, chair, Xerox Corp., 8:30 a.m.-4 p.m., Stamp Union. Those interested should contact the president's office for reservations, which must be made by March 6. Participant registration is \$20. Call the president's office, for info.*

Agricultural Extension Worldwide Colloquium: "The Importance of Small Farms in America," Edward Thompson Jr., American Farmland Trust, 12 noon, 0115 Symons. Call 5-1253 for info.

Mental Health Lunch 'n Learn: "Co-Morbidity and Differential Diagnoses of Anxiety Disorders," Bruce Black, National Institutes of Mental Health, Bethesda, 1-2 p.m., 3100E Health Center. Call 4-8106 for info.

Women Faculty Writers Fiction Reading: Readings by Joyce Kornblatt, Susan Leonardi, Sibbie O'Sullivan and Kim Roberts, 3 p.m., 0124 Taliaferro. Call 4-3873 for info.

Campus Senate Meeting, 3:30-6:30 p.m., 1026 Reckord Armory. Call 5-5805 for info.

Space Science Seminar: Richard Goldberg, NASA/Goddard, 4:30 p.m., 1113 Computer and Space Sciences. Call 5-4829 for info.

12 TUESDAY

UMIACS Distinguished Lecture: "The Future of Artificial Intelligence," Marvin Minsky, MIT, 10:30 a.m., auditorium, Adult Education Center. Call 5-6730 for info.

Seminar in Ecology, Evolution, and Behavior: "Influence of Exon Structures on Splicing of *Tetrahymena* Intron," Sarah Woodson, Chemistry and Biochemistry, noon, 1208 Zoo/ Psych. Call 5-6884 for info.

College of Engineering Lecture: "Impact of Women on the Stability of the Engineering Profession in the U.S.," Lilia Abron, PEER Consultants, 2 p.m., Judith Resnik Lecture Hall (EGR-1202). Call 5-3871 for info.

Offices of Undergraduate and Graduate Studies Introduction to Graduate School: "Opportunities for Graduate and Professional Education," for sophomores, juniors, and seniors, small group discussion and refreshments to follow, 3:30 p.m., 2203 Art/Soc. Call 5-9355 for info.

Classics Department Lecture: "Postures and Gestures Expressive of Respect and Disrespect in Homer's *Odyssey*," Donald Lateiner, Ohio Wesleyan U.; response, Joseph O'Connor, Georgetown U., 4 p.m., 2309 Art/Soc. Call 5-2013 for info.

13 WEDNESDAY

Campus Recreation Services Team Tennis and Softball, sign up today, 1104 Reckord Armory. Call 4-7218 for info.

Women's Center Film and discussion: "Miss Universe in Peru," noon-1 p.m. (bring lunch), 0109 Hornbake Library. Call 4-8462 for info.

Noontime Seminar on Computers in the Arts and Humanities: "Scholarship, Computers, and the International Community," H. Robert Cohen, Center for Studies in 19th-Century Music, noon-1:30 p.m., 4321 Hartwick Road, Suite 220. Call 5-4337 for info.

Center for Teaching Excellence Faculty Discussion, keynote address followed by active dialogue, noon-1:30 p.m. (bring brown-bag lunch), Maryland Room, Marie Mount. Call 5-3154 for info.

Art Department Minorities and Women Lecture, Yuriko Yamaguchi, Wall Sculptor, 12:30 p.m., 1309 Art/Soc. Call 5-1442 for info.

Foreign Policy Fellows Seminar: "Economic Reform in Latin America," Donald O'Connell, Economics, 3:30 p.m., student lounge, Morrill Hall. Call 5-6353 for info.

Distinguished Scholar-Teacher Lecture: "Socrates' Islamic Conversion," Charles Butterworth, Government and Politics, 4 p.m., 2203 Art/Soc, reception following. Call 5-9353 for info.

Theatre Performance: "Domestic Snakes," a movement performance written and performed Karen Abromaitis, March 13, 14 at 8 p.m.; March 16 at 9 p.m., Pugliese Theatre, \$8 (\$6 students and seniors). Call 5-2201 for tickets and info.*

* Admission charge for this event. All others are free.



The Philharmonia Baroque Orchestra, Nicholas McGegan, conductor, will perform selections from Mozart, Thursday, March 7 at 8 p.m. at the Adult Education Center. Ticket prices are \$17.50 standard admission, \$15.00 students and seniors. Call 403-4239 for info.